

Pylex®

Herbicide

Calibration Tips from Nuturf

Pylex is an innovative herbicide that offers control of warm-season grass and broadleaf weeds in cool-season turf with exceptional efficacy. Accuracy during the application process for Pylex is **critical** and will have an impact on the efficacy of the chemistry, and the results you achieve. To ensure you get the most out of Pylex, we recommend following these calibration and application tips:



1. Calibrate Your Boom Before Application

Fill your spray tank with water and run the boom, adjusting to your desired pressure (e.g. 3 bar). Place a measuring jug under the nozzle for 1 minute to calculate the L/min/nozzle rate. If your spray tank is small, run the boom for 20 seconds and multiply the result by 3 to get the L/min/nozzle.

$$\text{Application rate (L/ha)} = \frac{\text{L/min/nozzle} \times 600}{\text{km/h} \times W}$$

2. Determine Your Precise Application Rate and Required Travel Speed

For example, if the output for 1 nozzle over 1 minute is 1.6L/min/nozzle, the nozzle spacing (W) is 0.5m and target application volume is 400L/ha, you will need to calculate your travel speed:

$$\text{Travel speed (km/h)} = \frac{\text{L/min/nozzle} \times 600}{\text{L/ha} \times W} = \frac{1.6 \times 600}{400 \times 0.5} = 4.8 \text{ km/h}$$

3. Calculate Your Walking Speed

It's important calculate how fast you need to walk between the set markers to match the required travel speed for the spray application.

$$\text{Travel speed (km/h)} = \frac{\text{Distance (m)} \times 3.6}{\text{Time in seconds}}$$

For example, you will need to work out how many seconds it should take to travel 1 meter when walking at 4.8km/h.

$$\text{Time in seconds} = \frac{\text{Distance (m)} \times 3.6}{\text{Travel speed (km/h)}} = \frac{1 \times 3.6}{4.8 \text{ km/h}} = 0.75 \text{ seconds}$$

Tip: 3.6km/h is equivalent to 1m per second, so if your required travel speed is above this, your time to walk 1 meter should be below the distance of 1 metre. Conversely, if your required travel speed is below 3.6km/h, the time (seconds) should be higher than the distance (m). This is a common sense check to ensure your calculations are correct.

To walk 1 metre in 0.75 seconds, use a metronome to help with time and pacing. A metronome is a device that beats on each second if set to 60. To ensure it beats every 0.75 seconds, divide 60/0.75 = 80 beats per minute. Set the metronome to 80 beats per minute, and walk 1 metre per beat. You can download a free metronome app from the App Store on your phone and play the beat to pace as you walk and spray.